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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/NNS/W.No.08/CSR-987c/CEMENT/2019-20 Date: 19.06.2019

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N.N. Sreenivasaiah,** #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of Work	:	Construction of additional class room to Kodigehalli Government school at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	Cement
Sample Received on	:	17.06.2019
Period of Testing	:	17.06.2019 to 19.06.2019

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	375 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/NNS/W.No.08/CSR-987c/SAND-Gradation/2019-20 19.06.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N.N. Sreenivasaiah,** #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of Work	:	Construction of additional class room to Kodigehalli Government school at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	Fine Aggregates (Manufactured Sand)
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	17.06.2019
Date of Testing	:	19.06.2019

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	98.30	90-100	90-100	90-100	95-100
2.36	80.10	60-95	75-100	85-100	95-100
1.18	62.90	30-70	55-90	75-100	90-100
600 Micron	41.30	15-34	35-59	60-79	80-100
300 Micron	21.80	5-20	8-30	12-40	15-50
150 Micron	6.60	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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Job No.: CTCE/BBMP/NNS/W.No.08/CSR-987c/AGG/GR/2019-20 19.06.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N.N. Sreenivasaiah,** #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of Work	:	Construction of additional class room to Kodigehalli Government school at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	17.06.2019
Date of Testing	:	19.06.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.60	95-100	85-100
20	37.80	30-70	0-20
10	17.70	10-35	0-5
4.75	3.74	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/NNS/W.No.08/CSR-987c/AGG/GR/2019-20 19.06.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N.N. Sreenivasaiah,** #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of Work	:	Construction of additional class room to Kodigehalli Government school at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	Coarse Aggregates (20mm)
Technical Reference	:	IS : 2386 (Part 1) -1963(RA-2011)
Sample Received on	:	17.06.2019
Date of Testing	:	19.06.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2011)	
		Graded	Single Sized
40	100	100	100
20	96.96	95-100	85-100
10	39.84	25-55	0-20
4.75	7.74	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/NNS/W.No.08/Steel/2019-20 19.06.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N.N. Sreenivasaiah,** #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of work	:	Construction of additional class room to Kodigehalli Government school at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Samples ID	:	8mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	19.06.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	510	551	13.05	O.K	O.K

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Job No.: CTCE/BBMP/NNS/W.No.08/Steel/2019-20 19.06.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N.N. Sreenivasaiah,** #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of work	:	Construction of additional class room to Kodigehalli Government school at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Samples ID	:	10mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	19.06.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	514	555	13.15	O.K	O.K

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TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N.N. Sreenivasaiah,** #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of work	:	Construction of additional class room to Kodigehalli Government school at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Samples ID	:	12 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	19.06.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	519	561	13.3	O.K	O.K

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TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N.N. Sreenivasaiah,** #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of work	:	Construction of additional class room to Kodigehalli Government school at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Samples ID	:	16 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	19.06.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	16	1.58	524	566	13.45	O.K	O.K

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Job No.: CTCE/BBMP/NNS/W.No.08/Steel/2019-20 19.06.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N.N. Sreenivasaiah,** #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of work	:	Construction of additional class room to Kodigehalli Government school at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Samples ID	:	20 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	19.06.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	20	2.47	529	571	13.65	O.K	O.K

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Job No.: CTCE/BBMP/NNS/W.No.08/CSR-987c/Cube/2019-20 23.07.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N.N. Sreenivasaiah,** #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of the work	:	Construction of additional class room to Kodigehalli Government school at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	23.07.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.06.2019	23.07.2019	8.179	365.6	16.25
2	25.06.2019	23.07.2019	8.293	375.8	16.70
3	25.06.2019	23.07.2019	8.380	385.7	17.14

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Job No.: CTCE/BBMP/NNS/W.No.08/CSR-987c/Cube/2019-20 26.07.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N.N. Sreenivasaiah,** #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of the work	:	Construction of additional class room to Kodigehalli Government school at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	RCC Plinth Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	26.07.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.06.2019	26.07.2019	8.165	478.5	21.27
2	28.06.2019	26.07.2019	8.229	485.9	21.60
3	28.06.2019	26.07.2019	8.305	513.2	22.81

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Job No.: CTCE/BBMP/NNS/W.No.08/CSR-987c/Cube/2019-20 13.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N.N. Sreenivasaiah,** #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of the work	:	Construction of additional class room to Kodigehalli Government school at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	RCC Roof Slab Concrete (Ground Floor)
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.08.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.07.2019	13.08.2019	8.326	495.5	22.02
2	16.07.2019	13.08.2019	8.445	526.9	23.42
3	16.07.2019	13.08.2019	8.299	538.7	23.94

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Job No.: CTCE/BBMP/NNS/W.No.08/CSR-987c/Cube/2019-20 18.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N.N. Sreenivasaiah,** #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of the work	:	Construction of additional class room to Kodigehalli Government school at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	RCC Column Concrete (First Floor)
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	18.08.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.07.2019	18.08.2019	8.112	475.3	21.12
2	21.07.2019	18.08.2019	8.380	490.6	21.80
3	21.07.2019	18.08.2019	8.225	509.7	22.65

*Information is furnished by the Customer/Representative.

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Note:

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⇒The results indicated above are based on the tests carried out on the samples collected from the site.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/NNS/W.No.08/CSR-987c/Cube/2019-20 17.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N.N. Sreenivasaiah,** #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of the work	:	Construction of additional class room to Kodigehalli Government school at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	RCC Roof Slab Concrete (First Floor)
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	17.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.08.2019	17.09.2019	8.090	480.3	21.35
2	20.08.2019	17.09.2019	8.197	515.6	22.92
3	20.08.2019	17.09.2019	8.286	522.9	23.24

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/NNS/W.No.08/CSR-987c/CC Solid Block/2019-20 25.06.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF SOLID CONCRETE BLOCKS

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N.N. Sreenivasaiah,** #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of Work	:	Construction of additional class room to Kodigehalli Government school at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
Technical Reference	:	IS: 2185 (Part-1) - 2005 (RA-2010)
Size of Blocks	:	400mm x 200mm x 200mm
Cross Sectional Area	:	80000 mm^2
No. of Blocks Tested	:	08
Sample Received on	:	24.06.2019
Date of Testing	:	25.06.2019

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS: 2185 (Part-1) - 2005 (RA-2010)
1	Block 1	36.13	415.8	5.20	Minimum required Compressive Strength of Individual Units 5.00 N/mm^2.
2	Block 2	35.15	428.6	5.36	
3	Block 3	34.25	405.3	5.07	
4	Block 4	35.95	419.5	5.24	
5	Block 5	36.99	425.8	5.32	
6	Block 6	34.15	432.5	5.41	
7	Block 7	34.52	429.8	5.37	
8	Block 8	35.80	413.8	5.17	

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Job No.: CTCE/BBMP/NNS/W.No.08/CSR-987c/CC Solid Block/2019-20 25.06.2019

TEST REPORT ON BLOCK DENSITY OF SOLID CONCRETE BLOCKS

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N.N. Sreenivasaiah,** #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of Work	:	Construction of additional class room to Kodigehalli Government school at Kodigehalli Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
Technical Reference	:	IS: 2185 (Part-1) - 2005 (RA-2010)
Size of Blocks	:	400mm x 200mm x 200mm
Cross Sectional Area	:	80000 mm^2
No. of Blocks Tested	:	03
Sample Received on	:	24.06.2019
Date of Testing	:	25.06.2019

Sl.No.	Size of Block in mm	Mass of Block in Kg	Volume of Specimen in cm^3	Density in Kg/m^3	Average Density Kg/m^3
1	400x200X200	35.158	16000.00	2197.38	2178.46
2	400x200X200	34.245	16000.00	2140.31	
3	400x200X200	35.163	16000.00	2197.69	

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Job No.: CTCE/BBMP/NNS/W.No.08/CSR-987c/SAND-Gradation/2019-20 26.08.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. N.N. Sreenivasaiah,** #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of Work	:	Construction of additional class room to Kodigehalli Government school at Kodigehalli Ward No.08, BBMP, Bangalore.
*Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
*Sample ID	:	Fine Aggregates (Sand Plastering)
Technical Reference	:	IS : 1542 - 1992 (RA-2014)
Sample Received on	:	24.08.2019
Date of Testing	:	26.08.2019

Total Wt. of Aggregates in gms **1000**

Is Sieved Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS : 1542 - 1992 (RA-2014) Clause 5.1
10	100	100
4.75	98.40	95-100
2.36	96.50	95-100
1.18	94.00	90-100
600 Micron	88.00	80-100
300 Micron	46.00	20-65
150 Micron	13.50	0-15

* Information is furnished by the Customer/Representative

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Remarks : This tested sample satisfies requirement.

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